

OMB No. 0651-0011

**INFORMATION  
DISCLOSURE  
STATEMENT****Atty. Docket No.:**

55907USA7A.003

**Serial No.:**

09/803,702

**Applicant(s):**

Zai-Ming Qiu, John C. Clark, and Wayne W. Fan

**Filing Date:**

March 9, 2001

**Group:**

unknown

RECEIVED

MAY 21 2001

TECH CENTER 1600/2900

**U.S. PATENT DOCUMENTS**

Examiner Initial	Document Number	Date	Name	Class	SubClass	Filing Date If Appropriate

**FOREIGN PATENT DOCUMENTS**

Document Number	Date of Publication	Country	Class	SubClass	Translation
					Yes No

**OTHER DOCUMENTS (Including Authors, Title, Date, Pertinent Papers, etc.)**

20		Van A. Went, SUPERFINE THERMOPLASTIC FIBERS, Industrial and Engineering Chemistry, Vol. 48, No. 8, pp. 1342-1346, August (1956)
		Murray Hauptschein <sup>1a</sup> and Robert A. Braun <sup>1b</sup> , THE REACTION OF ETHYL PERFLUOROBUTYRATE WITH SODIUM. AN IMPROVED SYNTHESIS OF PERFLUOROHEPTAN-4-ONE, JACS, Vol. 77, pp. 4930-4931, (1955)
		E. T. McBee, W. F. Marzluff and O. R. Pierce, THE IONIZATION CONSTANTS OF SOME FLUORINE-CONTAINING ALCOHOLS <sup>1,2</sup> , Journal of American Chemistry Society, Vol. 74, pp. 444-446, (1952)
		J. L. Zollinger, J. R. Throckmorton, S. T. Ting, and R. A. Mitsch, PREPARATION AND CURING OF POLY (PERFLUOROALKYLENE OXIDES), J. Macromol. Sci.-Chem., A3(7), pp. 1443-1464, November (1969)
		TECHNICAL MANUAL & YEARBOOK OF THE AMERICAN ASSOCIATION OF TEXTILE CHEMISTS & COLORISTS (AATCC), AATCC Test Method 22, pp. 70-71, (1985)

**\*\*\*DO NOT PUBLISH\*\*\* RELATED U.S. APPLICATIONS \*\*\*DO NOT PUBLISH\*\*\***

Examiner Initial	Document Number	Filing Date	Name	Title of Application
20	U.S.S.N. 09/592,105	06/12/00	Jariwala et al.	"WATER- AND OIL-REPELLENT COMPOSITION", pp. 1-91
	U.S.S.N. 09/803,708	03/09/01	Qiu	WATER-AND OIL-REPELLENCY IMPARTING ESTER OLIGOMERS COMPRISING PERFLUOROALKYL MOIETIES

**EXAMINER****Date Considered**

\*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Based on Form PTO-FB-A820

Patent and Trademark Office, U.S. Department of Commerce

(Also form PTO-1449)

q:\3mip co forms and samples\ids pto form 1449.doc 4/1/99



OMB No. 0651-0011

<b>INFORMATION DISCLOSURE STATEMENT</b>	<b>Atty. Docket No.:</b>	<b>Serial No.:</b>
	55907USA7A.003	09/803,702
	<b>Applicant(s):</b> Zai-Ming Qiu, John C. Clark, and Wayne W. Fan	
	<b>Filing Date:</b> March 9, 2001	<b>Group:</b> unknown

**U.S. PATENT DOCUMENTS**

Examiner Initial	Document Number	Date	Name	Class	SubClass	Filing Date If Appropriate
Z	4,606,737	08/19/86	Stern			
	4,668,406	05/26/87	Chang			
	4,958,039	09/18/90	Pechhold			
	5,025,052	06/18/91	Crater et al.			
	5,115,013	05/19/92	Röttger et al.			
	5,145,727	09/08/92	Potts et al.			
	5,149,576	09/22/92	Potts et al.			
	5,204,441	04/20/93	Baum et al.			
	5,216,097	06/01/93	Allewaert et al.			
	5,276,175	01/04/94	Dams et al.			
	5,414,102	05/09/95	Pohmer et al.			
	5,424,474	06/13/95	Pohmer et al.			
	5,451,622	09/19/95	Boardman et al.			
	5,637,772	06/10/97	Malik et al.			
	5,674,951	10/07/97	Hargis et al.			
	5,688,884	11/18/97	Baker et al.			
	5,725,789	03/10/98	Huber et al.			
	6,037,429	03/14/00	Linert et al.			

**FOREIGN PATENT DOCUMENTS**

	Document Number	Date of Publication	Country	Class	SubClass	Translation	
						Yes	No
Z	DE 3611302 A1	10/08/87	Germany			X *	
Z	858,671	11/11/61	Great Britian				

\* English Abstract Attached

**OTHER DOCUMENTS (Including Authors, Title, Date, Pertinent Papers, etc.)**

Z	Banks, Ed., ORGANOFLUORINE CHEMICALS AND THEIR INDUSTRIAL APPLICATIONS, Ellis Horwood Ltd., Chichester, England, pp. 226-234, (1979)
	Roger W. Phillips <sup>1</sup> and Robert H. Dettre <sup>2</sup> , APPLICATION OF ESCA AND CONTACT ANGLE MEASUREMENTS TO STUDIES OF SURFACE ACTIVITY IN A FLUOROPOLYMER MIXTURE, Journal of Colloid and Interface Science, Vol. 56, No. 2, August (1976)

**EXAMINER****Date Considered**

Z

12/10/02

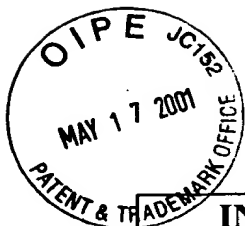
\*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Based on Form PTO-FB-A820

Patent and Trademark Office, U.S. Department of Commerce

(Also form PTO-1449)

q:\3mip co forms and samples\ids pto form 1449.doc 4/1/99



OMB No. 0651-0011

**INFORMATION  
DISCLOSURE  
STATEMENT****Atty. Docket No.:**

55907USA7A.003

**Serial No.:**

09/803,793

**Applicant(s):**

Zai-Ming Qiu, John C. Clark, and Wayne W. Fan

**Filing Date:**

March 9, 2001

**Group:**

unknown

RECEIVED

MAY 21 2001

TECH CENTER 1600/2900

**U.S. PATENT DOCUMENTS**

Examiner Initial	Document Number	Date	Name	Class	SubClass	Filing Date If Appropriate
W	2,803,615	08/20/57	Ahlbrecht et al.			
	2,803,656	08/20/57	Ahlbrecht, et al.			
	3,068,187	12/11/62	Bolstad et al.			
	3,094,547	06/18/63	Heine			
	3,102,103	08/27/63	Ahlbrecht et al.			
	3,341,497	09/12/67	Sherman et al.			
	3,478,116	11/11/69	Smeltz			
	3,547,894	12/15/70	Smeltz et al.			
	3,574,791	04/13/71	Sherman et al.			
	3,671,493	06/20/72	Lo Monaco et al.			
	3,734,962	05/22/73	Niederprüm et al.			
	3,759,874	08/18/73	Gresham			
	3,787,351	01/22/74	Olson			
	3,872,058	03/18/75	Gresham			
	3,916,053	10/28/75	Sherman et al.			
	3,968,066	07/06/76	Mueller			
	3,987,182	10/19/76	Gold			
	3,987,227	10/19/76	Schultz et al.			
	4,160,777	07/10/79	Loudas			
	4,215,205	07/29/80	Landucci			
	4,247,656	01/27/81	Janssen			
	4,289,892	09/15/81	Soch			
	4,426,466	01/17/84	Schwartz			
	4,468,527	08/28/84	Patel			
	4,504,401	03/12/85	Matsuo et al.			
	4,508,916	04/02/85	Newell et al.			
	4,529,658	07/16/85	Schwartz et al.			
	4,533,713	08/06/85	Howells			
	4,540,497	09/10/85	Chang et al.			
	4,540,765	09/10/85	Koemm et al.			
	4,566,981	01/28/86	Howells			

**EXAMINER****Date Considered**

\*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Based on Form PTO-FB-A820

Patent and Trademark Office, U.S. Department of Commerce

(Also form PTO-1449)

q:\3mip co forms and samples\ids pto form 1449.doc 4/1/99